

Watershed Report

Upper Wabash. Indiana, Ohio.

Land Use

	Total (Ac.)	Crops (Ac.)	% of Total	Forest (Ac.)	% of Total	Water/Wetland (Ac.)	% of Total	Pasture/Hay (Ac.)	% of Total	Urban (Ac.)	% of Total	No Data (Ac.)	% of Total
Adams	50,915	32,044	3.77	1,789	0.21	64	0.01	1	0.00	498	0.06	22	0.00
Allen	64,778	25,840	3.04	7,895	0.93	126	0.01	1	0.00	9,602	1.13	751	0.09
Cass	33,719	18,376	2.16	4,035	0.48	857	0.10	494	0.06	1,603	0.19	5	0.00
Grant	44,112	38,554	4.54	561	0.07	93	0.01	84	0.01	559	0.07	60	0.01
Howard	16,829	14,896	1.75	89	0.01	0	0.00	50	0.01	15	0.00	19	0.00
Huntington	150,726	94,130	11.09	14,215	1.67	826	0.10	12	0.00	7,356	0.87	1,362	0.16
Jay	82,325	57,579	6.78	4,285	0.50	14	0.00	4	0.00	436	0.05	46	0.01
Miami	100,376	60,094	7.08	8,957	1.06	1,029	0.12	1,351	0.16	4,855	0.57	36	0.00
Wabash	94,221	55,098	6.49	9,096	1.07	621	0.07	770	0.09	3,951	0.47	306	0.04
Wells	187,643	149,505	17.61	7,789	0.92	82	0.01	15	0.00	4,790	0.56	1,446	0.17
Whitley	23,222	16,291	1.92	1,902	0.22	17	0.00	0	0.00	466	0.05	160	0.02
Totals	848,866	562,407	66.25	60,613	7.14	3,729	0.44	2,782	0.33	34,132	4.02	4,212	0.50

Data Source = National Ag Statistics Service, 2006, <<http://www.nass.usda.gov/research/Cropland/SARS1a.htm>>

% Crop = Sum of the acres of corn, soybeans, wheat, other small grains, etc. divided by the total acres in the watershed.

% Pasture/Hay = Sum of the acres of pasture, hay, and idle land divided by the total acres in the watershed.

% Forest = Sum of the acres of forest land divided by the total acres in the watershed.

% Urban = Sum of the acres of residential and urban land divided by the total acres in the watershed.

% Water/Wetland = Sum of the acres of streams, lakes, ponds, etc. divided by the total acres in the watershed.

% Data Not Available = Sum of the acres of clouds on arial photographs divided by the total acres in the watershed.

Public Lands

	Public Lands (Ac.)	% of Total
Adams	578	0.07
Allen	621	0.07
Cass	211	0.02
Grant	12	0.00
Howard	0	0.00
Huntington	7,918	0.93
Jay	435	0.05
Miami	3,214	0.38
Wabash	254	0.03
Wells	2,515	0.30
Whitley	0	0.00
Totals	15,758	1.86

Data Source = Indiana Department of Natural Resources (State-Managed Lands), 2004;

Hoosier National Forest - U.S. Forest Service, 2004 and Patoka River USFWS, 2003

(Federal-Managed Lands)

% Public = Sum of the acres of federal, state, and local government land divided by the total acres in the watershed.

Cropland Types

	Crop (Ac.)	% of Total	Corn (Ac.)	% of Total	Wheat (Ac.)	% of Total	Other (Ac.)	% of Total	Hay (Ac.)	% of Total	Pasture/ Grass (Ac.)	% of Total
Adams	32,044	3.77	10,480	1.23	2,554	0.30	88	0.01	1	0.00	16,149	1.90
Allen	25,840	3.04	8,526	1.00	2,242	0.26	257	0.03	1	0.00	19,942	2.35
Cass	18,376	2.16	9,039	1.06	271	0.03	331	0.04	494	0.06	8,606	1.01
Grant	38,554	4.54	15,852	1.87	451	0.05	50	0.01	84	0.01	4,173	0.49
Howard	14,896	1.75	7,464	0.88	198	0.02	14	0.00	50	0.01	1,782	0.21
Huntington	94,130	11.09	36,851	4.34	4,905	0.58	745	0.09	12	0.00	32,068	3.78
Jay	57,579	6.78	20,711	2.44	4,368	0.51	229	0.03	4	0.00	19,155	2.26
Miami	60,094	7.08	29,473	3.47	1,373	0.16	689	0.08	1,351	0.16	24,873	2.93
Wabash	55,098	6.49	24,676	2.91	3,163	0.37	626	0.07	770	0.09	24,478	2.88
Wells	149,505	17.61	59,115	6.96	7,852	0.93	419	0.05	15	0.00	22,955	2.70
Whitley	16,291	1.92	5,698	0.67	1,284	0.15	110	0.01	0	0.00	4,258	0.50
Totals	562,407	66.25	227,885	26.85	28,663	3.38	3,558	0.42	2,782	0.33	178,438	21.02

Data Source = National Ag Statistics Service, 2006, <<http://www.nass.usda.gov/research/Cropland/SARS1a.htm>>

% Corn = Acres of corn divided by the sum of all row crop, hay, and pasture acres in the watershed.

% Beans = Acres of soybeans + double-crop soybeans/wheat divided by the sum of all row crop, hay, and pasture acres in the watershed.

% Wheat = Acres of wheat divided by the sum of all row crop, hay, and pasture acres in the watershed.

% Other Row Crop = Difference of the sum of the acres of corn, soybeans, wheat, hay, and pasture minus total cropland acres in the watershed divided by total crop, hay, and pasture acres in the watershed.

% Hay = Acres of hay divided by the sum of all row crop, hay, and pasture acres in the watershed.

% Pasture = Acres of pasture divided by the sum of all row crop, hay, and pasture acres in the watershed.

Ac. = Acres

% = Percent

T & E = Threatened and Endangered

CFO = Confined Feeding Operation

CAFO = Concentrated Animal Feeding Operation

AU = Animal Units

Ft. = Feet

= Number

Mi. = Miles

Beef and Swine Processing

	Beef Plants	Beef Animals	Swine Plants	Swine Animals
<u>Adams</u>	0	0	0	0
<u>Allen</u>	0	0	0	0
<u>Cass</u>	0	0	0	0
<u>Grant</u>	0	0	0	0
<u>Howard</u>	0	0	0	0
<u>Huntington</u>	1	531	1	142
<u>Jay</u>	0	0	0	0
<u>Miami</u>	0	0	0	0
<u>Wabash</u>	0	0	0	0
<u>Wells</u>	2	1,051	2	1,806
<u>Whitley</u>	0	0	0	0
Totals	3	1,582	3	1,948

Data Source = Indiana Board of Animal Health, 2006 (Slaughter Processing),
<http://www.in.gov/boah/food_safety/inspection/meat_poultry.html>

Confined Livestock 2006

	CAFO/CFO	Dairy		Beef		Swine		Poultry		Sheep	
		Farms	Animals	Farms	Animals	Farms	Animals	Farms	Animals	Farms	Animals
<u>Adams</u>	13	1	540	4	510	8	12,214	5	346,500	0	0
<u>Allen</u>	2	0	0	1	250	1	1,072	1	60,000	0	0
<u>Cass</u>	2	0	0	0	0	2	5,000	0	0	0	0
<u>Grant</u>	4	0	0	0	0	4	6,733	0	0	0	0
<u>Howard</u>	5	0	0	2	750	4	6,864	0	0	0	0
<u>Huntington</u>	8	2	2,556	2	834	5	7,325	0	0	0	0
<u>Jay</u>	40	4	995	4	750	28	67,351	13	2,747,458	0	0
<u>Miami</u>	13	0	0	1	25	13	26,914	0	0	0	0
<u>Wabash</u>	29	2	1,560	4	3,030	24	35,854	0	0	0	0
<u>Wells</u>	29	6	5,945	5	2,769	18	31,101	1	240,000	0	0
<u>Whitley</u>	0	0	0	0	0	0	0	0	0	0	0
Totals	145	15	11,596	23	8,918	107	200,428	20	3,393,958	0	0

Data Source = Indiana Department of Environmental Management, Office of Land Quality, 2007, <<http://www.state.in.us/idem/agriculture/livestock/cfo/index.html>>
Confined Animal Feeding Operation (CAFO) = (U. S. Environmental Protection Agency definition) Operations with at least one of the following: 200 dairy cows; 300 veal calves; 300 beef cattle; 750 swine 55 pounds or more; 3000 swine under 55 pounds; 150 horses; 3000 sheep or lambs; 16,500 turkeys; 9000 chickens (liquid manure); 25,000 chickens - laying hens (not liquid manure); 37,500 chickens - not laying hens (not liquid manure); 1,500 ducks (liquid manure); or 10,000 ducks (not liquid manure).
Confined Feeding Operation (CFO) = (Indiana Department of Environmental Management definition) = Operations with at least one of the following: 300 cattle; 600 swine or sheep; or 30,000 poultry.

Biofuel Plants

	Ethanol	Biodiesel
<u>Adams</u>	0	0
<u>Allen</u>	0	0
<u>Cass</u>	0	0
<u>Grant</u>	0	0
<u>Howard</u>	0	0
<u>Huntington</u>	0	0
<u>Jay</u>	0	0
<u>Miami</u>	0	0
<u>Wabash</u>	0	0
<u>Wells</u>	0	0
<u>Whitley</u>	0	0
Totals	0	0

Data Source = Indiana Department of Transportation, 2006 (Biofuels Processing),
<<http://www.in.gov/isda/biofuels/>>

Surface and Groundwater Resource Concern Areas

	Impaired Streams (Mi.)	Impaired Lakes (Ac.)	Wellhead Protection (Ac.)	Karst (Ac.)	% Karst
<u>Adams</u>	34.26	0	1,146	0	0.00
<u>Allen</u>	5.01	0	2,971	0	0.00
<u>Cass</u>	17.93	0	833	0	0.00
<u>Grant</u>	0.00	0	203	0	0.00
<u>Howard</u>	0.00	0	0	0	0.00
<u>Huntington</u>	39.45	0	5,547	0	0.00
<u>Jay</u>	24.35	0	0	0	0.00
<u>Miami</u>	36.95	0	7,477	0	0.00
<u>Wabash</u>	21.85	0	5,648	0	0.00
<u>Wells</u>	44.41	0	6,462	0	0.00
<u>Whitley</u>	0.00	0	873	0	0.00
Totals	224.20	0	31,161	0	0.00

Data Source (Impaired Water Bodies) = Indiana Department of Environmental Management 303(d) List, <<http://www.state.in.us/idem/programs/water/303d/index.html>>
303(d)-listed streams = are impaired waterbodies that have been identified by IDEM as exceeding threshold limits of specific contaminants.

Data Source (Wellhead Protection Areas) = Indiana Department of Environmental Management, <<http://www.in.gov/idem/programs/water/swp/whpp/>>

Data Source (Karst) = Karst Data, 2002, Indiana NRCS, data unpublished

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Soils-Based Resource Concerns and Analyses

	Hydric (Ac.)		Leaching Index >= 10 (Ac.)		Subsurface Drainage= H/VH (Ac.)		Soil Erosion (Wind) > 500 (Ac.)		Potential for Frequent Flooding (Ac.)		Surface Runoff Class =H/VH (Ac.)		Soil Erosion (Water) >37 (Ac.)		Sheet/Rill Erosion Potential Between 1T & 2T (Ac.)		Sheet/Rill Erosion Potential >=2 (Ac.)	
		%		%		%		%		%		%		%		%		%
Adams	17,731	2.09	262	0.03	43,010	5.07	19,292	2.27	5,658	0.67	18,032	2.12	5,888	0.69	0	0.00	0	0.00
Allen	19,582	2.31	603	0.07	12,593	1.48	3,253	0.38	4,041	0.48	14,494	1.71	4,103	0.48	554	0.07	42	0.00
Cass	7,990	0.94	1,888	0.22	14,609	1.72	847	0.10	0	0.00	3,881	0.46	9,302	1.10	3,720	0.44	801	0.09
Grant	27,791	3.27	1	0.00	1,568	0.18	1	0.00	0	0.00	5,985	0.71	230	0.03	0	0.00	14	0.00
Howard	9,967	1.17	71	0.01	16,694	1.97	22	0.00	49	0.01	7,512	0.88	4	0.00	0	0.00	0	0.00
Huntington	50,096	5.90	349	0.04	108,032	12.73	345	0.04	144	0.02	26,107	3.08	28,613	3.37	4,950	0.58	3,239	0.38
Jay	24,248	2.86	233	0.03	29,835	3.51	233	0.03	3,852	0.45	76,165	8.97	3,101	0.37	621	0.07	0	0.00
Miami	25,341	2.99	890	0.10	61,503	7.25	1,455	0.17	603	0.07	24,827	2.92	12,160	1.43	534	0.06	4,169	0.49
Wabash	19,631	2.31	9,427	1.11	56,373	6.64	610	0.07	1,587	0.19	23,517	2.77	25,935	3.06	9,138	1.08	4,743	0.56
Wells	76,570	9.02	13,483	1.59	162,184	19.11	0	0.00	6,514	0.77	19,426	2.29	4,338	0.51	269	0.03	0	0.00
Whitley	8,717	1.03	1,906	0.22	19,005	2.24	165	0.02	693	0.08	4,019	0.47	1,472	0.17	213	0.03	37	0.00
Totals	287,664	33.89	29,113	3.43	525,406	61.89	26,223	3.09	23,141	2.73	223,965	26.38	95,146	11.21	19,999	2.36	13,045	1.54

Data Source (Hydric Soils) = NRCS Soil Data Mart (2007) - <http://soildatamart.nrcs.usda.gov/>. A soil mapunit was considered hydric if a majority of its component soils is hydric.

Data Source (Sheet/Rill Erosion Potential) = NRCS Soil Data Mart, 2007, <http://soildatamart.nrcs.usda.gov/> and the Revised Universal Soil Loss Equation, Version 2 (RUSLE2). Erosion potential is based on the RUSLE2 calculation for the soil with a "C" Factor equal to that of a typical cropland management system used in Indiana (no-till soybeans, followed by chisel-plowed corn with an injected anhydrous application). Soils under this management system between 1 and 2 times of tolerable limits are eroding above sustainable levels; soils under this management system greater than 2 times of tolerable limits may be ineligible for certain USDA benefits. Management systems that leave more residue on the surface, those with less soil disturbance, crop rotations with higher-residue crops, etc. will decrease soil erosion compared to those under the typical cropland system. Management systems that leave less residue, disturb the soil more, and those with crop rotation with lower-residue crops may increase soil erosion above the typical cropland system.

Data Source (Leach Index, Wind Erosion, Water Erosion, Flood Potential, and Surface and Subsurface Drainage) = NRCS Soil Data Mart, 2007, <http://soildatamart.nrcs.usda.gov/> and the NRCS Indiana Nutrient Management (590) Standard (Section IV of the Indiana Electronic Field Office Technical Guide (eFOTG)) http://efotg.nrcs.usda.gov/efotg_locator.aspx?map=IN. NOTE: Because climatic and other data elements may be county-based, threshold values may differ among adjacent counties and result in abrupt data thresholds.

Hydric soils = Characterized by, relating to, or requiring an abundance of water, hydric soils are indicators of wetlands, which represent unique management considerations including groundwater impacts, crop production limitations, wildlife considerations, etc.

Leach Index = soils with a relatively high risk of water percolating below the crop root zone; developed using annual precipitation, rainfall distribution data and hydrologic soil groups. **Subsurface Drainage** = soils with a relatively high risk of having subsurface drainage; determined from a matrix based on soil drainage class and depth to seasonal high water, and the presence of artificial subsurface drainage and surface tile inlets.

Soil Erosion (Wind) = soils with a relatively high risk of eroding by wind; determined from a location's C (Climate) Factor and a soil's Soil Erodibility Index (I).

Flooding Potential = soils with a relatively frequent risk of being covered by flowing water from any source; determined from the NRCS soil survey.

Surface Runoff Class = soils with a relatively high relative risk of soil solution movement from the surface of a management unit; determined using soil permeability and percent slope.

Soil Erosion (Water) = soils with a relatively high risk of eroding by water; determined from a location's R (Rainfall-Runoff Erosivity) Factor, and a soil's K (Soil Erodibility) and LS (Length-Slope) factors.

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Water Resources

	Standing Water (Ac.)	Streams (Mi.)	1st Order (Mi.)	2nd Order (Mi.)	3rd Order (Mi.)	4th Order (Mi.)	5th Order (Mi.)	6th+ Order (Mi.)	Stream Order Unavailable (Mi.)
Adams	168	67.20	33.44	8.85	0.90	3.31	20.69	0.00	0.00
Allen	176	99.42	63.33	19.01	15.66	1.17	0.00	0.00	0.25
Cass	59	72.11	40.50	10.57	6.98	0.00	12.67	0.00	1.39
Grant	6	29.82	18.65	11.17	0.00	0.00	0.00	0.00	0.00
Howard	0	16.21	16.21	0.00	0.00	0.00	0.00	0.00	0.00
Huntington	1,170	135.99	65.79	12.94	17.50	15.61	20.33	0.00	3.82
Jay	236	151.88	92.35	36.30	18.53	1.52	3.18	0.00	0.00
Miami	145	138.26	79.89	24.55	19.87	0.00	13.52	0.00	0.43
Wabash	100	79.66	57.13	4.08	0.00	0.02	18.44	0.00	0.00
Wells	296	153.29	90.58	34.70	7.13	0.00	20.63	0.00	0.25
Whitley	14	30.99	28.75	2.25	0.00	0.00	0.00	0.00	0.00
Totals	2,372	974.83	586.62	164.42	86.57	21.63	109.45	0.00	6.13

Data Source = National Hydrography Data - U.S. Geological Survey, 2006, <<http://www.horizon-systems.com/nhdplus/>>

Stream Order = A hierarchal stream classification system. The confluence of two first order streams forms a second order stream; the confluence of two second order streams forms a third order stream; etc. Generally, larger order streams (such as the Ohio or Mississippi Rivers) have more volume, depth and channel width. They also are located in the lower reaches of watersheds. First order streams (unforked or unbranched streams) are in the upper reaches of watersheds.

Air Resource Concern Areas

	% of Watershed
Adams	0.00
Allen	7.63
Cass	0.00
Grant	0.00
Howard	0.00
Huntington	0.00
Jay	0.00
Miami	0.00
Wabash	0.00
Wells	0.00
Whitley	0.00
Totals	7.63

Data Source = Environmental Protection Agency, 2006, data no longer published. 2007 data is available at <<http://www.epa.gov/air/data/nonat.html?st~IN~Indiana>>.

Unique Habitat Areas

Ac. Within Range of Known T & E Species	% of Watershed Within Range of Known T & E Species	Natural Communities (Ac.)	Permanent Easement (Ac.)	% of Watershed in Permanent Easement
32,274	3.80	767	29,178	3.44

Data Source (Threatened & Endangered Species and Natural Communities) = Indiana Department of Natural Resources, Division of Nature Preserves; Analysis by NRCS, 2007, data source is not public. Habitat ranges indicate the likely life-history range surrounding known locations of threatened & endangered species (state and federal listed) that have the potential to be used by the species (ranges for plants = point - 0 miles; amphibians/reptiles/insects/aquatic species = ¼ - ½ mile; mammals/birds = 1 mile).

Data Source (Natural Communities) = Areas identified and classified by the IDNR as unique/rare (data include the Natural Community acreage + ¼ mile buffer), data not published.

Data Source (Permanent Easements) = Indiana NRCS (Wetlands Reserve Program), 2007, data not published

Farm Census Data

	Farms	Farms <10 Ac.	Farms <50 Ac.	Farms <180 Ac.	Farms <500 Ac.	Farms <1000 Ac.	Farms >1000 Ac.	Minority Farmers	Full Time Farmers	Part Time Farmers
Adams	281	39	97	81	37	16	11	2	58	135
Allen	244	25	88	76	32	11	12	6	47	113
Cass	93	12	22	26	16	10	7	1	11	45
Grant	106	10	29	25	19	14	10	1	13	46
Howard	51	7	13	11	10	6	4	1	8	18
Huntington	416	34	128	105	70	43	36	1	58	199
Jay	278	22	88	82	53	18	15	6	38	143
Miami	291	18	88	78	58	31	18	9	43	131
Wabash	286	27	73	91	52	24	18	2	36	135
Wells	486	35	109	133	89	70	50	5	68	213
Whitley	98	7	34	33	15	5	5	1	17	47
Totals	2,630	236	769	741	451	248	186	35	397	1,225

Data Source = National Ag Statistics Service 2002 Census of Agriculture (<<http://www.nass.usda.gov/census/census02/volume1/in/index2.htm>>). Estimates for each watershed were derived from county values based on the percentage of each county in the watershed.

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NRCS Practices

Year:	Vegetative Agronomic Practices (Ac.)	No Till (Ac.)	Mulch Till (Ac.)	Upland Buffers (Ft.)	Aquatic Buffers (Ac.)	Grazing Practices (Ac.)	Nutrient Mgt. (Ac.)	Pest Mgt. (Ac.)	Irrigation (Ac.)	CNMPs (#)	Gully Erosion Control (Ac.)	Gully Control Structures (#)	Wildlife Habitat (Ac.)	Forestry Practices (Ac.)	Confined Livestock Waste Storage (#)	Wetland Practices (Ac.)
2007	1,074	3,512	2,831	30,588	67	267	4,611	4,951	0	3	22	41	3,982	598	1	620
2006	0	458	1,357	0	0	383	0	2,256	0	0	0	0	3,149	361	0	53
2005	0	3,620	4,217	40,302	129	379	0	1,599	0	0	0	0	188	70	0	56
2004	0	1,764	1,806	8,420	142	300	0	0	0	0	0	0	68	184	0	66
2003	0	1,762	1,922	10,386	297	138	0	1,186	0	1	0	0	489	126	0	1
2002	0	2,166	503	36,776	1,770	308	0	1,945	0	2	0	0	547	52	0	5

Data Source = NRCS Performance Results System Reports, 2007, <<http://ias.sc.egov.usda.gov/prshome/index.aspx>>.

Vegetative Agronomic Practices = Acres of Conservation Cover (327) + 342 (Critical Area Planting) + 340 (Cover Crops) practices installed in the given fiscal year.

Upland Buffers = Feet of Field Border (386) + Windbreak/Shelterbelt Establishment (380) + Hedgerow Planting (422) + Windbreak/Shelterbelt Renovation (650) practices installed in the given fiscal year.

Aquatic Buffers = Acres of Filter Strips (393) + Riparian Forest Buffers (391) practices installed in the given fiscal year.

Grazing Practices = Acres of Prescribed Grazing (528 and 528A) + Pasture and Hayland Planting (512) practices installed in the given fiscal year.

Nutrient Mgmt = Acres of Nutrient Management (590) + Waste Utilization (633) practices installed in the given fiscal year.

Pest Mgmt = Acres of Pest Management (595) practices installed in the given fiscal year.

Irrigation = Acres of Irrigation System, Microirrigation (441) + Irrigation System, Sprinkler (442) + Irrigation System, Surface and Subsurface (443) + Irrigation Water Management (449) practices installed in the given fiscal year.

CNMPs = Number of Comprehensive Nutrient Management Plans written in the given fiscal year.

Gully Control - grassed waterways = Acres of Grassed Waterway (412) practices installed in the given fiscal year.

Gully Control - other = Acres of Grade Stabilization Structure (410) + Water and Sediment Control Basin (638) practices installed in the given fiscal year.

Wildlife habitat = Acres of Upland Wildlife Habitat Management (645) + Wetland Wildlife Habitat Management (644) + Restoration and Management of Rare and Declining Habitats (653) + Early Successional Habitat Development/Management (647) practices installed in the given fiscal year.

Forestry Practices = Acres of Tree/Shrub Establishment (612) + Forest Stand Improvement (666) practices installed in the given fiscal year.

Confined Livestock Waste Storage Facilities = Number of Waste Storage Facility (313) + Composting Facility (317) + Waste Treatment Lagoon (359) practices installed in the given fiscal year.

Wetland Practices = Acres of Wetland Restoration (657) + Wetland Creation (658) + Wetland Enhancement (659) practices installed in the given fiscal year.

Ac. = Acres
 % = Percent
 T & E = Threatened and Endangered
 CFO = Confined Feeding Operation
 CAFO = Concentrated Animal Feeding Operation
 AU = Animal Units
 Ft. = Feet
 # = Number
 Mi. = Miles